

PATENT ABSTRACTS OF JAPAN

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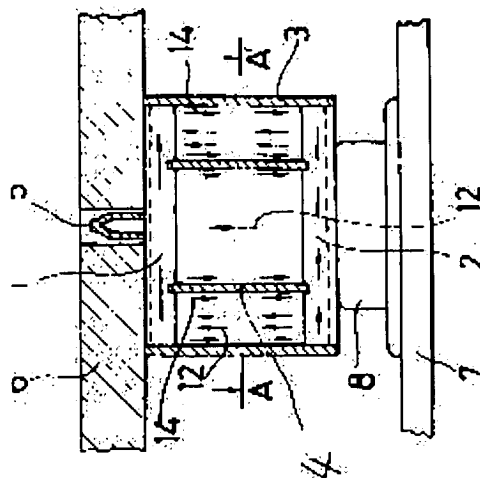
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(54) HEAT PIPE

(57)Abstract:

PURPOSE: To enhance heat response property and reduce loss, by a method wherein a heat pipe is provided with one pipe end surface as a heat input surface and the other pipe end surface as a heat output surface, flat inside surfaces of both end sealing plates are reinforced by a plurality of parallel fins, and ends of grooves formed between the fins make contact with the inside wall of a heat pipe container.

CONSTITUTION: The end sealing plate 1 on the heat output surface side and the end sealing plate 2 on the heat input surface side which constitute both ends of the heat pipe container 3 are constituted of a plurality of parallel fins, the plate 1 makes contact with a heat sink 6, and the plate 2 makes contact with a heating element 8. A hollow pipe 4 is provided between the end sealing plates 1 and 2 to reinforce the plates 1, 2 and promotes the recirculation of a working fluid. Since the parallel fins are used as end sealing plates, heat-exchanging efficiency is enhanced, flow resistance of the fluid is reduced, and the recirculating speed of the fluid is enhanced.



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